

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P522513

Luminaire Tested: **SQW-F-050U-025D-93050-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522513
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-53,
Test Lab: INNOVATION CENTER
Issue Date: 5/11/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-050U-025D-93050-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

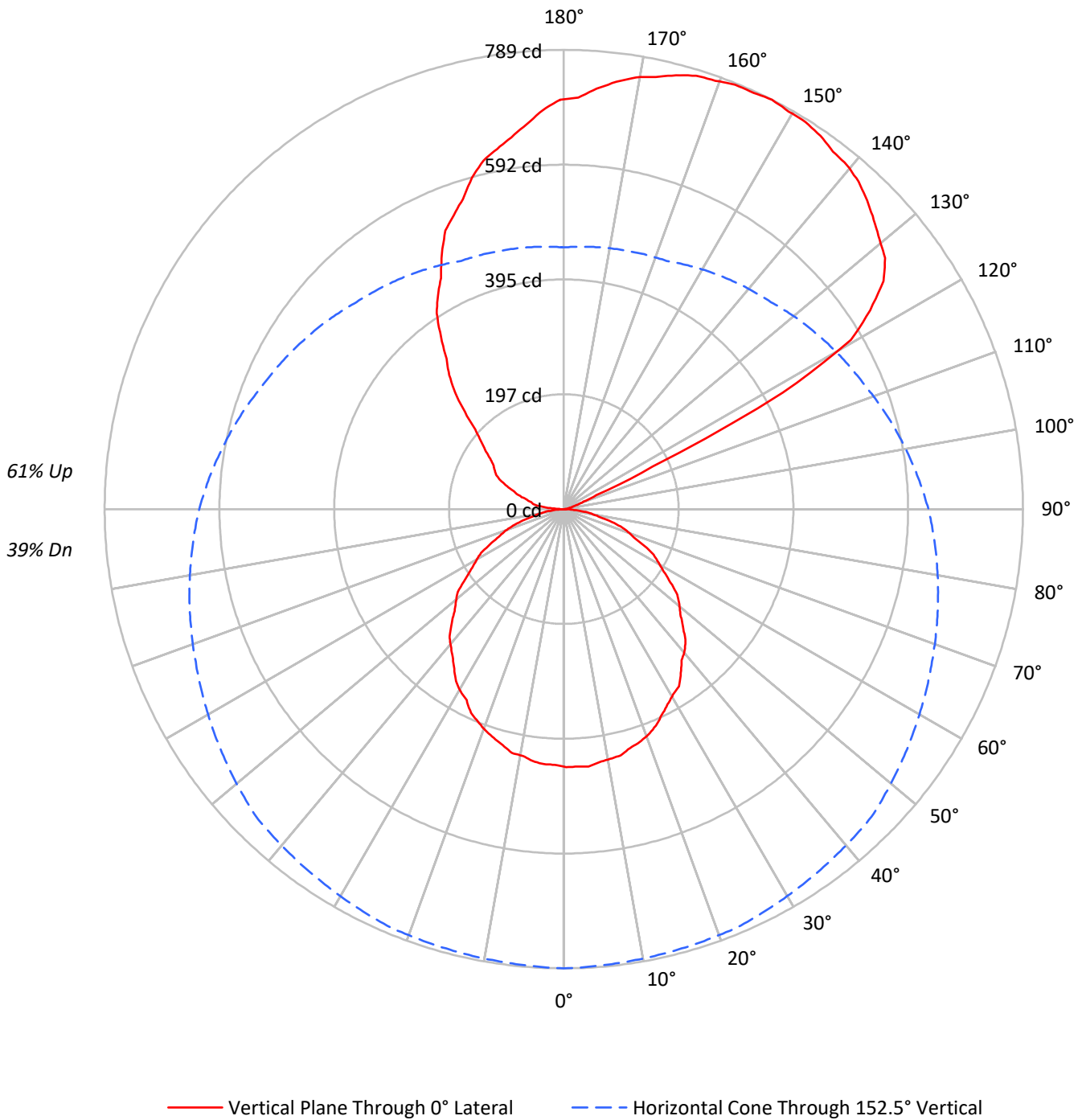
Lumens per Lamp: N/A
Luminaire Lumens: 3188.8 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 31.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	104	104	104	104	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	95	91	87	84	86	83	79	76	67	65	63	53	52	50	40	39	38	32
2	87	79	73	68	78	72	67	63	59	55	52	47	44	42	35	34	32	27
3	79	69	62	56	71	63	57	52	52	47	44	41	38	35	31	29	27	23
4	72	61	54	48	65	56	49	44	46	41	37	37	33	30	28	25	23	19
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17
6	61	49	41	35	55	45	38	33	37	31	28	29	26	23	23	20	18	15
7	56	44	36	31	51	40	33	28	33	28	24	27	23	20	21	18	16	13
8	52	40	32	27	47	37	30	25	30	25	21	24	20	18	19	16	14	12
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13	10
10	45	33	26	21	41	30	24	20	25	20	17	21	17	14	16	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	7161	7161	7161
5°	7204	7237	7125
10°	7158	7174	7047
15°	7117	7168	7004
20°	7115	7132	6930
25°	6975	7062	6852
30°	6896	6969	6714
35°	6828	6865	6556
40°	6742	6742	6433
45°	6542	6677	6272
50°	6458	6581	6111
55°	6269	6435	5855
60°	6051	6242	5641
65°	5849	6036	5360
70°	5514	5792	5051
75°	5078	5265	4529
80°	4472	4649	3831
85°	3279	3631	2538



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.9	1.3
10°-20°	119.8	3.8
20°-30°	180.0	5.6
30°-40°	214.8	6.7
40°-50°	220.7	6.9
50°-60°	198.0	6.2
60°-70°	149.9	4.7
70°-80°	85.6	2.7
80°-90°	22.4	0.7
90°-100°	17.8	0.6
100°-110°	78.8	2.5
110°-120°	226.5	7.1
120°-130°	345.0	10.8
130°-140°	374.5	11.7
140°-150°	358.1	11.2
150°-160°	295.0	9.3
160°-170°	193.1	6.1
170°-180°	66.8	2.1
0°-30°	341.7	10.7
0°-40°	556.5	17.5
0°-60°	975.2	30.6
0°-90°	1233.2	38.7
90°-120°	323.1	10.1
90°-150°	1400.7	43.9
90°-180°	1956.0	61.3
0°-180°	3188.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	444	444	444	444	444	
5°	444	442	446	440	440	42
15°	426	429	429	425	419	121
25°	392	395	396	392	385	181
35°	346	348	348	340	333	217
45°	286	292	292	282	275	222
55°	223	228	229	217	208	199
65°	153	156	158	147	140	151
75°	81	84	84	78	73	86
85°	18	21	20	17	14	22
90°	0	0	0	0	0	1
95°	3	4	12	28	27	4
105°	18	48	90	62	66	21
115°	170	446	228	107	120	235
125°	675	588	364	180	153	592
135°	744	673	483	299	238	574
145°	778	725	576	426	363	488
155°	786	754	645	534	486	364
165°	770	750	691	621	591	218
175°	725	726	712	681	664	70
180°	704	704	704	704	704	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	443.5	443.5	443.5	443.5	443.5	443.5	443.5	443.5	443.5
2.5°	442.7	443.5	445.1	442.8	445.9	442.8	443.5	441.9	439.6
5°	444.5	442.6	442.5	442.6	446.5	441.7	439.6	438.6	439.6
7.5°	439.0	439.4	439.2	438.9	443.1	435.6	438.6	435.7	436.1
10°	436.6	434.7	437.6	435.7	437.6	434.7	434.7	431.7	429.8
12.5°	434.3	433.1	434.5	431.1	436.8	429.4	428.4	427.8	428.2
15°	425.8	428.7	428.8	425.9	428.8	422.1	424.9	420.9	419.0
17.5°	421.1	418.3	419.6	417.3	420.5	415.0	414.7	410.6	411.1
20°	414.1	411.2	414.1	410.3	415.1	406.4	409.2	404.2	403.3
22.5°	404.7	404.1	407.8	404.7	405.6	400.8	400.5	394.8	393.9
25°	391.5	392.5	395.4	390.7	396.4	388.7	391.5	382.7	384.6
27.5°	380.1	380.3	383.7	381.3	382.5	376.5	376.8	369.3	368.0
30°	369.9	370.9	375.8	371.9	373.8	367.1	368.9	359.1	360.1
32.5°	362.9	360.7	364.8	361.0	364.4	357.7	357.9	350.5	349.1
35°	346.4	346.4	348.3	348.3	348.3	341.6	340.5	333.6	332.6
37.5°	329.3	328.5	335.2	330.1	332.4	326.9	324.8	318.1	316.9
40°	319.9	316.0	321.8	319.9	319.9	315.1	313.0	307.1	305.2
42.5°	306.5	305.8	310.1	308.9	311.2	303.4	301.2	294.5	293.4
45°	286.5	287.5	292.4	290.5	292.4	287.6	281.6	276.7	274.7
47.5°	269.6	268.1	272.8	272.6	274.5	267.3	264.5	257.1	256.7
50°	257.1	257.1	261.0	260.1	262.0	256.2	251.2	245.3	243.3
52.5°	244.5	243.0	247.7	247.5	247.9	242.9	237.8	232.7	231.6
55°	222.7	223.7	227.6	227.7	228.6	223.8	216.8	210.9	208.0
57.5°	202.3	201.8	205.5	206.6	206.6	201.8	195.7	190.7	189.6
60°	187.4	188.4	191.3	193.3	193.3	188.5	181.5	176.6	174.7
62.5°	173.3	173.5	177.2	178.4	180.0	174.4	168.2	163.2	161.3
65°	153.1	152.1	156.0	158.0	158.0	153.2	147.2	142.2	140.3
67.5°	130.1	131.5	134.6	135.8	136.8	131.0	125.2	122.0	121.1
70°	116.8	115.8	119.7	121.7	122.7	116.9	111.9	107.9	107.0
72.5°	102.6	102.4	105.6	107.5	107.7	102.0	97.7	94.5	92.0
75°	81.4	82.4	84.4	84.4	84.4	80.5	77.5	74.5	72.6
77.5°	60.6	61.6	63.4	65.1	64.2	60.7	57.7	54.7	53.0
80°	48.1	49.0	50.0	51.0	50.0	48.1	45.1	42.2	41.2
82.5°	35.5	35.7	38.3	38.4	37.5	35.6	33.4	30.4	30.2
85°	17.7	18.6	20.6	20.6	19.6	18.7	16.7	14.7	13.7
87.5°	3.9	4.7	6.3	7.8	6.3	6.3	4.7	3.1	2.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.5	0.5	1.0	1.6	2.6	9.8	11.0	10.0	9.4
95°	2.6	2.6	3.9	12.5	12.5	20.2	27.5	26.9	26.9
97.5°	5.9	6.5	9.2	37.9	28.3	27.6	39.3	43.3	43.7
100°	8.5	9.2	14.4	61.8	42.0	35.6	42.0	51.2	53.1
102.5°	11.7	12.8	22.8	97.6	59.3	42.6	49.3	55.9	57.8
105°	17.7	19.6	47.9	163.6	90.5	56.5	62.3	65.6	66.2
107.5°	26.6	33.8	131.0	230.1	128.4	74.8	78.2	80.4	81.2
110°	36.1	51.5	227.5	270.2	156.7	88.8	86.6	92.4	91.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	60.7	105.9	334.0	303.1	185.0	105.3	94.4	104.0	104.8
115°	169.8	291.6	446.5	350.0	228.2	133.9	106.9	116.1	120.0
117.5°	426.2	507.1	505.8	393.4	269.6	167.7	121.8	126.3	130.6
120°	573.1	585.3	535.7	422.7	296.4	191.9	134.4	132.5	136.4
122.5°	627.6	617.8	558.3	448.4	323.7	217.1	150.7	139.3	142.7
125°	674.7	655.5	587.5	485.1	363.9	254.3	180.3	154.1	153.4
127.5°	700.8	680.7	616.1	516.9	400.9	292.9	214.0	174.9	169.0
130°	713.4	694.8	636.0	536.5	425.6	319.1	238.7	193.2	184.3
132.5°	728.6	708.5	650.2	556.5	449.2	343.8	263.3	215.2	204.7
135°	743.6	725.0	673.4	582.6	482.6	380.0	299.0	251.5	238.0
137.5°	756.9	739.9	694.7	603.2	512.8	415.7	336.8	290.5	274.1
140°	765.9	747.3	703.6	619.0	531.1	438.2	361.9	315.8	302.9
142.5°	769.0	757.6	713.0	632.2	551.6	459.6	387.1	339.4	327.6
145°	778.3	770.6	724.6	648.2	575.7	491.7	425.6	376.1	363.3
147.5°	784.4	772.8	735.2	665.3	599.3	520.5	460.4	413.0	401.0
150°	784.9	775.9	743.6	676.0	615.0	541.3	481.9	437.1	426.2
152.5°	789.1	778.0	747.8	684.9	626.6	559.0	503.4	461.7	449.8
155°	786.2	778.5	754.1	696.5	644.6	581.7	533.7	496.8	486.5
157.5°	786.2	776.7	754.8	705.5	661.9	606.7	562.1	527.9	520.2
160°	780.9	777.1	755.4	711.8	670.8	620.8	581.0	549.9	539.6
162.5°	778.8	772.4	756.4	716.1	678.7	632.2	597.2	567.8	560.1
165°	769.8	764.0	750.1	718.0	691.1	652.6	621.0	594.6	590.8
167.5°	759.4	754.9	745.8	721.2	699.4	668.0	641.3	620.0	614.8
170°	752.1	745.0	741.6	722.8	703.6	677.3	654.4	635.2	629.5
172.5°	739.5	738.6	735.8	718.8	707.2	685.6	666.5	648.9	645.2
175°	724.6	724.6	726.5	715.9	712.1	694.1	680.6	670.0	664.2
177.5°	707.2	707.8	712.0	711.4	712.0	701.7	697.8	687.8	686.8
180°	703.6	703.6	703.6	703.6	703.6	703.6	703.6	703.6	703.6

(END OF REPORT)